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**(54) PRODUCTION OF HYDROGEN PEROXIDE**

**(57) Abstract:**

**PURPOSE:** To efficiently produce hydrogen peroxide by a direct single-stage reaction operation by allowing hydrogen to react with oxygen in an eq. soln.

oxygen-contg. gas in an acidic eq. soln. at 10-50°C under 5-50kg/cm<sup>2</sup>G pressure in the presence of a catalyst obtnd. by carrying fine gold particles having ≤50nm particle size on a hydrophobic carrier.

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**CONSTITUTION:** Hydrogen is allowed to react with